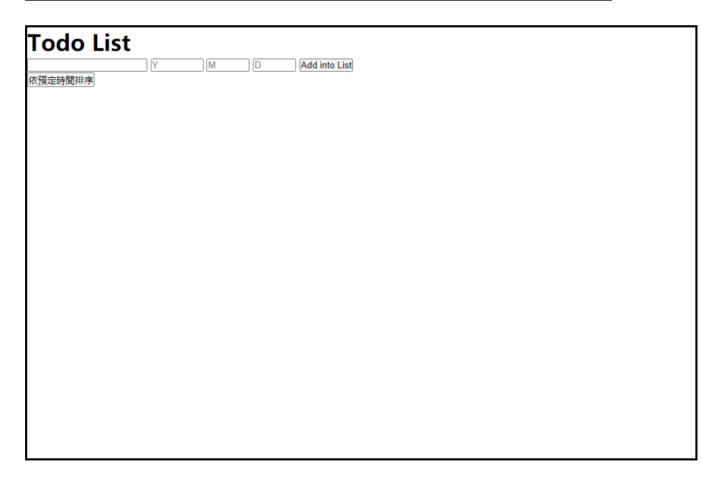
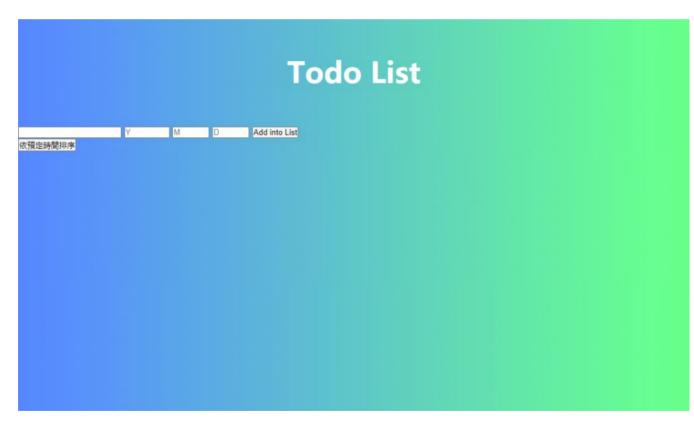
### $-\cdot HTML$



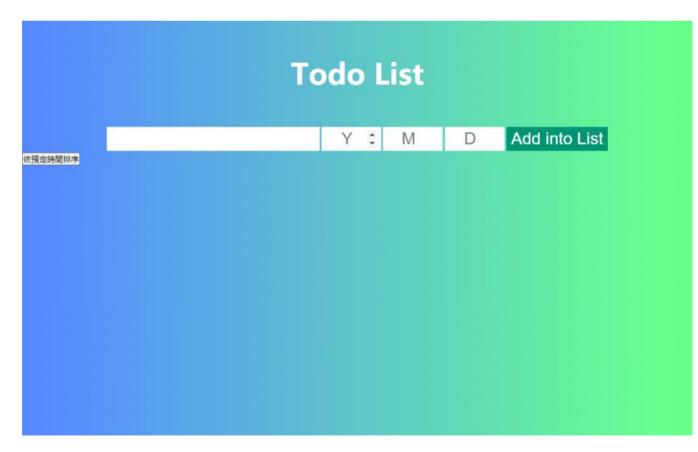
# ☐ \ CSS

1. 背景與 header。



2.表單物件。

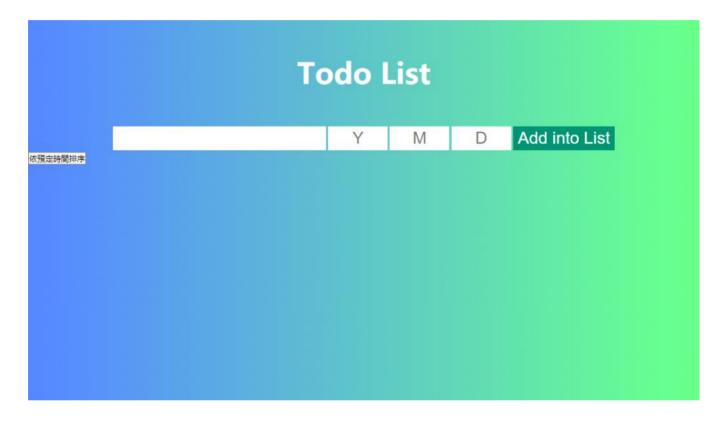
```
form {
 display: flex;
 justify-content: center;
 align-items: center;
 input,
 button {
   border: none;
   padding: 0.25rem 0.5rem;
   font-size: 1.75rem;
   margin: 0.1rem;
 input[type="number"] {
   width: 100px;
   text-align: center;
 }
 button {
   cursor: pointer;
   background-color: □rgb(0, 146, 114);
   color: ☐white;
```



3.隱藏數字上下按鈕。

```
/* Chrome, Safari, Edge, Opera */
input::-webkit-outer-spin-button,
input::-webkit-inner-spin-button {
   -webkit-appearance: none;
   margin: 0;
}

/* Firefox */
input[type="number"] {
   -moz-appearance: textfield;
}
```



# 三、JavaScript

1.設定表單按鈕行為。

```
let add = document.querySelector("form button");
add.addEventListener("click", e => {
    e.preventDefault();
});
```

2.取得表單資料,並新增至表單下方。

let section = document.querySelector("section");

```
let form = e.target.parentElement;
let todoText = form.children[0].value;
let todoYear = form.children[1].value;
let todoMonth = form.children[2].value;
let todoDate = form.children[3].value;
let todo = document.createElement("div");
todo.classList.add("todo");
let text = document.createElement("p");
text.classList.add("todo-text");
text.innerText = todoText;
let time = document.createElement("p");
time.classList.add("todo-time");
time.innerText = todoYear + "/" + todoMonth + " / " + todoDate;
todo.appendChild(text);
todo.appendChild(time);
section.appendChild(todo);
```

# Todo List test 2021 1 1 Add into List 於精度時間度 test 2021/1 / 1

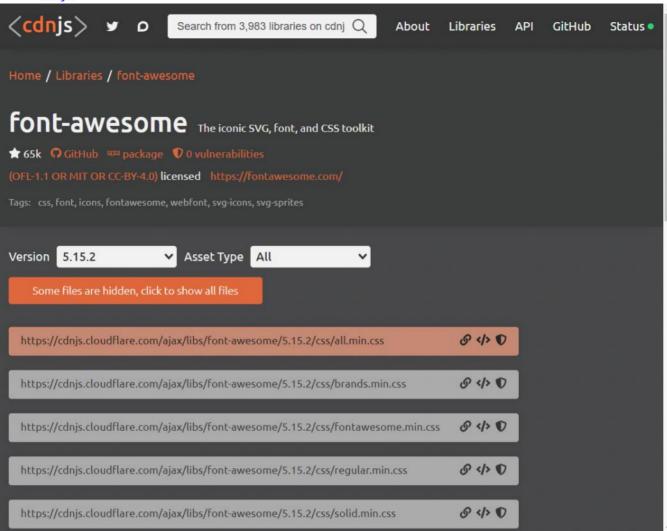
3.調整資料區的樣式。

```
section {
 display: flex;
 flex-direction: column;
 align-items: center;
 div.todo {
   width: 50vw;
   display: flex;
   align-items: center;
   margin: 0.2rem 0rem;
   p {
     background-color: ■white;
     color: □black;
     padding: 0.25rem 0.5rem;
     font-size: 1.75rem;
   p.todo-text {
    width: 65%;
   p.todo-time {
     width: 35%;
    text-align: center;
```

		T				
	test		2021	12	31	Add into List
依預定時間排序		test		202	1/12 /	31
		test		202	1/12/	31
		test		202	1/12/	31

# 四、加入按鈕圖示

1.先到 cdnjs 官網複製 CSS 連結到 index.html。



### 2.設定按鈕圖示

```
let completeButton = document.createElement("button");
completeButton.classList.add("complete");
completeButton.innerHTML = '<i class="fas fa-check"></i>';

let trashButton = document.createElement("button");
trashButton.classList.add("trash");
trashButton.innerHTML = '<i class="fas fa-trash"></i>';

todo.appendChild(completeButton);
todo.appendChild(trashButton);
```



# 3.設定按鈕樣式

```
button {
  padding: 0.25rem 0.5rem;
  font-size: 1.75rem;
  border: none;
  cursor: pointer;
  color: ■ white;
}

button.complete {
  background-color: □ rgb(50, 255, 50);
}
button.trash {
  background-color: □ red;
}
```



# 五、設定事項動畫特效與事件

1.新增事項時彈出動畫。

```
@keyframes scaleUp {
   from {
        transform: scale(0);
   }
   to {
        transform: scale(1);
   }
}
```

```
todo.style.animation = "scaleUp 0.3s forwards";
```



2.事項完成時標示記號。

```
completeButton.addEventListener("click", e => {
    let todoItem = e.target.parentElement;
    todoItem.classList.add("done");
})

.done {
    opacity: 0.5;
```

opacity: 0.5;
text-decoration: line-through;
text-decoration-thickness: 0.2rem;
}

transition: all 0.1s ease;

```
i {
   pointer-events: none;
}
```

# **Todo List**

	test		2021	1	1	Add into List
<b>衣預定時間排序</b>						
		test		2021/1	<del>/1</del>	
		test		2021/1	/1 🗸	
		test		2021/1	/1 🔽	
		test		2021/1	<del>/1</del> <b>~</b>	

# 3.設定移除動畫與特效。

```
@keyframes scaleDown {
   to {
        transform: scale(0);
   }
}
```

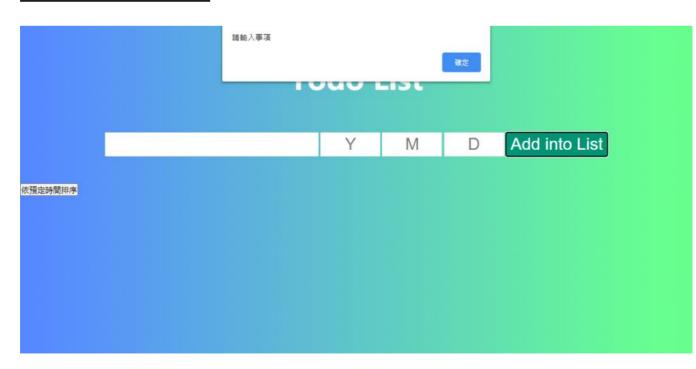


# 4.按下新增事項按鈕後清空輸入框

```
form.children[0].value = "";
```

# 5.提示未輸入資料

```
if (todoText === "") {
    alert("請輸入事項");
    return;
}
```



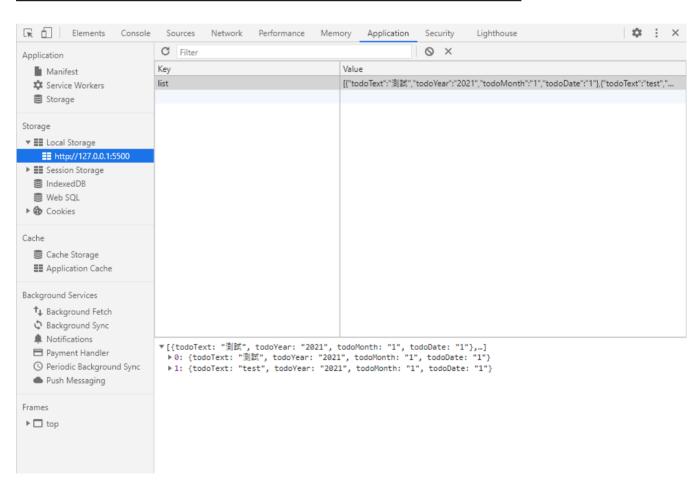
# 六、localStorage

1. 將資料以陣列方式存入localStorage。

```
let myTodo = {
  todoText: todoText,
  todoYear: todoYear,
  todoMonth: todoMonth,
  todoDate: todoDate
};

let myList = localStorage.getItem("list");
if (myList == null) {
  localStorage.setItem("list", JSON.stringify([myTodo]));
} else {
  let myListArray = JSON.parse(myList);
  myListArray.push(myTodo);
  localStorage.setItem("list", JSON.stringify(myListArray));
}

console.log(JSON.parse(localStorage.getItem("list")));
```



2.重新開啟網頁時讀取localStorage資料。

```
let myList = localStorage.getItem("list");
if (myList !== null) {
  let myListArray = JSON.parse(myList);
  myListArray.forEach(item => {
    let todo = document.createElement("div");
    todo.classList.add("todo");
    let text = document.createElement("p");
    text.classList.add("todo-text");
    text.innerText = item.todoText;
    let time = document.createElement("p");
    time.classList.add("todo-time");
    time.innerText = item.todoYear + "/" + item.todoMonth + " / " + item.todoDate;
    todo.appendChild(text);
    todo.appendChild(time);
```

```
let completeButton = document.createElement("button");
 completeButton.classList.add("complete");
 completeButton.innerHTML = '<i class="fas fa-check"></i>';
 completeButton.addEventListener("click", e => {
   let todoItem = e.target.parentElement;
   todoItem.classList.toggle("done");
 })
 let trashButton = document.createElement("button");
 trashButton.classList.add("trash");
 trashButton.innerHTML = '<i class="fas fa-trash"></i>';
 trashButton.addEventListener("click", e => {
   let todoItem = e.target.parentElement;
   todoItem.addEventListener("animationend", () => {
    todoItem.remove();
   })
   todoItem.style.animation = "scaleDown 0.3s forwards";
 })
 todo.appendChild(completeButton);
 todo.appendChild(trashButton);
 todo.style.animation = "scaleUp 0.3s forwards";
 section.appendChild(todo);
})
```

3.刪除localStorage資料。

```
let text = todoItem.children[0].innerText;
let myListArray = JSON.parse(localStorage.getItem("list"));
myListArray.forEach((item, index) => {
    if (item.todoText == text) {
        myListArray.splice(index, 1);
        localStorage.setItem("list", JSON.stringify(myListArray));
    }
})
```

# 七、依時間排序

1.按鈕樣式

```
div.sort {
    display: flex;
    justify-content: center;
    align-items: center;
    margin: 1rem 0rem;

button {
    cursor: pointer;
    background-color: □rgb(0, 146, 114);
    color: ■white;
    border: none;
    padding: 0.25rem 0.5rem;
    font-size: 1.75rem;
}
```



2.建立比較函式。

```
function mergeTime(arr1, arr2) {
  let result = [];
 let i = 0;
  let j = 0;
 while (i < arr1.length && j < arr2.length) {
    if (Number(arr1[i].todoYear) > Number(arr2[j].todoYear)) {
      result.push(arr2[j]);
      j++;
    } else if (Number(arr1[i].todoYear) < Number(arr2[j].todoYear)) {</pre>
      result.push(arr1[i]);
     i++;
    } else if (Number(arr1[i].todoYear) == Number(arr2[j].todoYear)) {
      if (Number(arr1[i].todoMonth) > Number(arr2[j].todoMonth)) {
        result.push(arr2[j]);
      } else if (Number(arr1[i].todoMonth) < Number(arr2[j].todoMonth)) {</pre>
        result.push(arr1[i]);
        i++;
      } else if (Number(arr1[i].todoMonth) == Number(arr2[j].todoMonth)) {
        if (Number(arr1[i].todoDate) > Number(arr2[j].todoDate)) {
          result.push(arr2[j]);
          j++;
        } else {
          result.push(arr1[i]);
          i++;
        }
    }
 while (i < arr1.length) {</pre>
    result.push(arr1[i]);
    i++;
  while (j < arr2.length) {</pre>
    result.push(arr2[j]);
```

```
j++;
}
return result;
}

function mergeSort(arr) {
    if (arr.length === 1) {
        return arr;
    } else {
        let middle = Math.floor(arr.length / 2);
        let right = arr.slice(0, middle);
        let left = arr.slice(middle, arr.length);
        return mergeTime(mergeSort(right), mergeSort(left));
    }
}
```

## 3.建立按鈕功能

```
let sortButton = document.querySelector("div.sort button");
sortButton.addEventListener("click", () => {
    let sortedArray = mergeSort(JSON.parse(localStorage.getItem("list")));
    localStorage.setItem("list", JSON.stringify(sortedArray));

let len = section.children.length;
for (let i = 0; i < len; i++) {
    section.children[0].remove();
    }

loadData();
})</pre>
```

```
loadData();
function loadData() {
  let myList = localStorage.getItem("list");
```

# **Todo List**

